

AMENDMENTS TO THE CLAIMS

No Amendments to the claims are made herein. However, for the convenience of the Examiner, a complete listing of the claims as pending is provided below:

1. - 25. Canceled

26. (Previously Presented) A communication device comprising:

 a baseband symbol generator;

 a dipole antenna;

 a power amplifier coupled to said dipole antenna, the power amplifier being configured to receive a first output of said baseband symbol generator from a signal path that includes a fractional-N sigma-delta modulator having a pre-emphasis filter, to receive a second output of the baseband symbol generator, and to amplify the first output with a gain that is controlled by a varying amplitude of the second output.

27. - 32. Canceled

33. (Previously Presented) The communication device of claim 26, wherein a transfer function of the pre-emphasis filter is optimized according to pre-defined optimization criteria.

34. (Previously Presented) The communication device of claim 33, wherein said transfer function of said pre-emphasis filter is a finite impulse response.

35. (Previously Presented) The communication device of claim 33, wherein said optimization criteria includes a mean squared error of an input to said pre-emphasis filter and an input to a voltage controlled oscillator of a fractional-N phase locked loop unit.

36. (Previously Presented) The communication device of claim 26, wherein said fractional-N sigma-delta modulator includes at least:

a sigma-delta converter coupled to the pre-emphasis filter; and
a fractional-N phase locked loop unit coupled to an output of said sigma-delta converter,
wherein a transfer function of said pre-emphasis filter is to be optimized according to predefined optimization criteria; and
wherein said optimization criteria are related to an input to said pre-emphasis filter and are related to an input to a voltage controlled oscillator of the fractional-N phase locked loop unit.

37. (Previously Presented) The communication device of claim 36, wherein said transfer function is a finite impulse response.

38. (Previously Presented) The communication device of claim 36, wherein said transfer function is an infinite impulse response.